

**Listing of the Claims:**

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Currently Amended) An occludator according to claim 3,  
comprising a lower bow-shaped part for mounting a lower jaw tooth mold, an upper  
bow-shaped part for mounting an upper jaw tooth mold, and

right and left joints which enable a movement including an  
opening/closing movement and a lateral movement so that the lower bow-shaped part  
and the upper bow-shaped part are vertically brought into contact with each other via  
an elastic body for applying an urging force in a direction of bringing the lower bow-  
shaped part and the upper bow-shaped part relatively close to each other,  
characterized in that each of the right and left joints comprises

an artificial condyle which is detachably mounted on the lower bow-  
shaped part and protrudes upward and an artificial articular fossa which is detachably  
mounted on the upper bow-shaped part and is opposed to the artificial condyle from  
above, the artificial condyle and the artificial articular fossa are both identical in  
contour to the mandibular condyle or the maxillary fossa protruding closer to an ideal  
model during fabrication of the upper jaw tooth model, wherein,

each of the right and left joints is constituted of an upper joint and a  
lower joint which are opposed to each other, the upper joint is constituted of an upper  
mounting member supported by the upper bow-shaped part, a maxillary fossa model,  
and first mounting means for detachably mounting a pedestal of the maxillary fossa  
model on the upper mounting member, and the lower joint is constituted of a lower  
mounting member fixed on the lower bow-shaped part, a mandibular condyle model,  
and second mounting means for detachably mounting a pedestal of the mandibular  
condyle model on the lower mounting member, and wherein,

the first mounting means is constituted of a male screw part formed on the upper mounting member, a cylindrical member having a female screw formed in an inner surface, the female screw enabling to be screwed to the male screw, and an inner flange which is formed integrally with the cylindrical member, forms a hole permitting passage of the maxillary fossa model, and can make contact with a periphery of the pedestal of the maxillary fossa model, and the periphery of the pedestal of the maxillary fossa model is sandwiched between the upper mounting member and the inner flange by screwing the female screw to the male screw.

5. (Currently Amended) The occludator according to claim 3 4, characterized in that the second mounting means is constituted of a male screw part formed on the lower mounting member, a cylindrical member having a female screw formed in an inner surface, the female screw enabling to be screwed to the male screw, and an inner flange which is formed integrally with the cylindrical member, forms a hole permitting passage of the mandibular condyle model, and can make contact with a periphery of the pedestal of the mandibular condyle model, and the periphery of ~~the a~~ pedestal of the mandibular condyle model is sandwiched between the lower mounting member and the inner flange by screwing the female screw to the male screw.

6. (Currently Amended) The occludator according to claim 3 4, characterized in that the first mounting means comprises

a ring-shaped part which is formed on an end of the upper mounting member and has an inner concave part permitting insertion of the pedestal of the maxillary fossa model, and

a fixing screw which laterally penetrates the ring-shaped part while being connected to the ring-shaped part by screwing, and has an end screwed inside the pedestal from a part where the female screw is not formed on the side of the pedestal of the maxillary fossa model.

7. (Original) The occludator according to claim 6, characterized in that the pedestal in cross section and the concave part of the ring-shaped part are both polygonal, and the pedestal is so shaped as to be engaged with the concave part of the ring-shaped part.

8. (Currently Amended) The occludator according to claim 3 4, characterized in that the second mounting means comprises

a ring-shaped part which is formed on an end of the lower mounting member and has an inner concave part permitting insertion of the pedestal of the mandibular condyle model, and a fixing screw which laterally penetrates the ring-shaped part while being connected to the ring-shaped part by screwing, and has an end screwed inside the pedestal from a part where the female screw is not formed on a side of the mandibular condyle model.

9. (Original) The occludator according to claim 8, characterized in that the pedestal in cross section and the concave part of the ring-shaped part are both polygonal, and the pedestal is so shaped as to be engaged with the concave part of the ring-shaped part.

10-11. (Canceled.)

12. (Currently Amended) The occludator according to claim 4 4, characterized by further comprising position adjusting means for laterally adjusting a position of at least one of the artificial condyle and the artificial articular fossa.

13. (Canceled.)

14. (Currently Amended) The occludator according to claim 4 4, characterized by further comprising connecting parts on a pair of lateral positions in the occludator, the connecting parts connecting the a face bow.

15. (Withdrawn) A face bow used for the occludator according to claim 14, the face bow reproducing a positional relationship between a temporomandibular joint and an occlusion plane on the occludator,

characterized in that the face bow comprises a face bow body having a pair of right and left legs stretching symmetrically, a connecting part which is provided on an end of the leg and can be connected to the connecting part of the occludator, and a nose piece which is supported by the face bow body and brought into contact with a hollow on an upper part of a nose of a patient,

the nose piece comprises a position adjusting mechanism capable of adjusting a position at least in a vertical direction and a longitudinal direction with respect to the face bow body,

the connecting part provided on the end of the leg is an ear rod which can be inserted into an external auditory meatus of a patient, the connecting part of the occludator is constituted of an insertion hole permitting insertion of the ear rod,

the face bow body is made of a material permitting passage of an X-ray beam, and the face bow body comprises a marking member which is laterally opposed to a center of a mandibular condyle of a patient or a vicinity of the center in front of the ear rod and is made of a material not permitting passage of an X-ray beam, and a supporting member causing the leg to support the marking member.

16. (Withdrawn) The face bow according to claim 15, characterized in that the face bow body comprises a level.

17. (Withdrawn) A face bow for reproducing a positional relationship between a temporomandibular joint and an occlusion plane on the occludator,

characterized in that the face bow comprises a face bow body having a pair of right and left legs stretching symmetrically, an ear rod which is provided on

an end of the leg and can be inserted into an external auditory meatus of a patient, and a nose piece which is supported by the face bow body and brought into contact with a hollow on an upper part of a nose of a patient,

the face bow further comprises a regulating mechanism for sliding the pair of right and left legs only in a lateral direction.

18. (Withdrawn) The face bow according to claim 17, characterized in that the face bow body is made of a material permitting passage of an X-ray beam, and the face bow body comprises a marking member which is laterally opposed to a center of a mandibular condyle of a patient or a vicinity of the center in front of the ear rod and is made of a material not permitting the passage of an X-ray beam, and a supporting member causing the leg to support the marking member.

19. (Currently Amended) An occlusion confirming system, characterized in that the system comprises a CT device for photographing a temporomandibular joint of a target person, a stereolithography machine for forming a solid model of the temporomandibular joint ~~on a basis of three-dimensional image data of the temporomandibular joint specified by image information photographed by the CT device, by determining consecutive two-dimensional sectional data along the Z axis from the three-dimensional image data when obtaining three-dimensional image data on a target temporomandibular joint from the X-ray CT device, performing photo-curing to obtain the two-dimensional contours of the two-dimensional sectional data, and repeatedly overlaying the contours, so that a resin solid model of a temporomandibular joint is fabricated, and an occludator including a lower bow-shaped part for mounting a lower jaw tooth mold, an upper bow-shaped part for mounting an upper jaw tooth mold, and right and left joints for connecting the lower bow-shaped part and the upper bow-shaped part, the joint comprises~~ an artificial condyle which is mounted on the lower bow-shaped part

and protrudes upward and an artificial articular fossa which is mounted on the upper bow-shaped part and is opposed to the artificial condyle from above, the artificial condyle and the artificial articular fossa are each constituted of the solid model formed by the stereolithography machine, and the solid models of the artificial condyle and the artificial articular fossa are integrally formed in a separable manner.

20. (Canceled)

21. (Canceled)

22. (Previously Presented) The occlusion confirming system according to claim 19, characterized by further comprising an elastic body for applying an urging force in a direction of bringing the lower bow-shaped part and the upper bow-shaped part relatively close to each other.

23. (Currently Amended) The occlusion confirming system according to 19, characterized in that the joint each of the right and left joints is constituted of an upper joint and a lower joint which are opposed to each other,

the upper joint is constituted of an upper mounting member supported by the upper bow-shaped part, a maxillary fossa model, and first mounting means for detachably mounting a pedestal of the maxillary fossa model on the upper mounting member, and

the lower joint is constituted of a lower mounting member fixed on the lower bow-shaped part, a mandibular condyle model, and second mounting means for detachably mounting a pedestal of the mandibular condyle model on the lower mounting member.

24. (Currently Amended) The occlusion confirming system according to claim 23, characterized in that the first mounting means is constituted of a male screw part formed on the upper mounting member,

a cylindrical member having a female screw formed in an inner surface, the female screw capable of being screwed to the male screw, and an inner flange which is formed integrally with the cylindrical member, forms a hole permitting passage of the maxillary fossa model, and can make contact with a periphery of the a pedestal of the maxillary fossa model, and the periphery of the pedestal of the maxillary fossa model is sandwiched between the upper mounting member and the inner flange by screwing the female screw to the male screw.

25. (Previously Presented) The occlusion confirming system according to claim 23, characterized in that the second mounting means is constituted of a male screw part formed on the lower mounting member, a cylindrical member having a female screw formed in an inner surface, the female screw enabling to be screwed to the male screw, and an inner flange which is formed integrally with the cylindrical member, forms a hole permitting passage of the mandibular condyle model, and can make contact with the periphery of a pedestal of the mandibular condyle model, and the periphery of the pedestal of the mandibular condyle model is sandwiched between the lower mounting member and the inner flange by screwing the female screw to the male screw.

26. (Currently Amended) The occlusion confirming system according to claim 5 25, characterized in that the first mounting means comprises a ring-shaped part which is formed on an end of the an upper mounting member and has an inner concave part permitting insertion of the pedestal of the maxillary fossa model, and a fixing screw which can laterally penetrate the ring-shaped part while being connected to the ring-shaped part by screwing, and has an end capable of being screwed inward or in contact with a side of the pedestal of the maxillary fossa model.

27. (Previously Presented) The occlusion confirming system according to claim 23, characterized in that the second mounting means comprises

a ring-shaped part which is formed on an end of the lower mounting member and has an inner concave part permitting insertion of the pedestal of the mandibular condyle model, and

a fixing screw which can laterally penetrate the ring-shaped part while being connected to the ring-shaped part by screwing, and has an end capable of being screwed inward or in contact with a side of the pedestal of the mandibular condyle model.

28. (Currently Amended) The occlusion confirming system according to claims 23, characterized by further comprising upper positioning means for regulating a position of the pedestal of the maxillary fossa model relative to the a upper mounting part.

29. (Currently Amended) The occlusion confirming system according to claim 23, characterized by further comprising lower positioning means for regulating a position of the pedestal of the mandibular condyle model relative to the a lower mounting part.

30. (Previously Presented) The occlusion confirming system according to claim 19, characterized by further comprising position adjusting means for laterally adjusting a position of at least one of the artificial condyle and the artificial articular fossa.

31. (Previously Presented) The occlusion confirming system according to claim 19, characterized by further comprising  
a face bow including a face bow body which is used for reproducing a positional relationship between the temporomandibular joint and  
an occlusion plane on the occludator and has a pair of right and left legs stretching symmetrically, characterized in that at least the right and left legs are made of a material permitting passage of a light beam used in the CT device, and at

least one marking member is provided on an end of each of the right and left legs, the marking member being made of a material not permitting the passage of the light beam.

32. (Original) The occlusion confirming system according to claim 31, characterized in that the face bow comprises a nose piece which is supported by the face bow body and brought into contact with a hollow in an upper part of a nose of a patient, and the nose piece comprises a position adjusting mechanism capable of adjusting a position at least in a vertical direction and a longitudinal direction with respect to the face bow body.

33. (Previously Presented) The occlusion confirming system according to claim 31, characterized in that the face bow body comprises a level.

34. (Previously Presented) The occlusion confirming system according to claim 31, characterized in that the marking member is disposed on a position presumed to be laterally opposed to a center of the mandibular condyle of a patient.

35. (Previously Presented) The occlusion confirming system according to claim 31, characterized by further comprising an ear rod on an end of the leg in the face bow, the ear rod being inserted into an external auditory meatus of a patient, and each of right and left sides of the occludator has an insertion hole for insertion of the ear rod.

36. (Previously Presented) The occlusion confirming system according to 31, comprising a headgear fixed on a head of a target person, characterized in that the head gear comprises right and left connecting parts for temporarily connecting right and left ends of the face bow and connection position adjusting means for adjusting a position of the connecting part to a predetermined

position.

37. (Original) The occlusion confirming system according to claim 36, characterized in that the headgear comprises fixing means for temporarily fixing the headgear to the CT device.

38. (Currently Amended) An occlusion confirming system characterized in that the system comprises  
a CT device for photographing a temporomandibular joint of a target person,

a stereolithography machine for forming a solid model of the temporomandibular joint on a basis of three-dimensional image data of the temporomandibular joint specified by image information photographed by the CT device, and

an occulator including a lower bow-shaped part for mounting a lower jaw tooth mold, and

an upper bow-shaped part for mounting an upper jaw tooth mold, and right and left joints for connecting the lower bow-shaped part and the upper bow-shaped part,

the joint each of the right and left joints comprises an artificial condyle which is mounted on the lower bow-shaped part and protrudes upward and an artificial articular fossa which is mounted on the upper bow-shaped part and is opposed to the artificial condyle from above, and at least one of the artificial condyle and the artificial articular fossa is constituted of the solid model formed by the stereolithography machine, and

a database for storing ideal model information about a temporomandibular joint condyle,

characterized in that the system further comprises data correcting means for correcting three-dimensional data on the temporomandibular joint condyle specified by image information photographed by the CT device such that a contour of

the temporomandibular joint condyle specified by the image information photographed by the CT device is identical to a contour protruding closer to an ideal model, when a comparison is made between the contour of the temporomandibular joint condyle specified by the image information photographed by the CT device and the corresponding ideal model on the database and it is decided that the temporomandibular joint condyle wears more than a predetermined degree.

39. (Canceled)

40. (Withdrawn) A temporomandibular joint reproducing system characterized in that the system comprises a CT device for photographing a temporomandibular joint of a target person, a stereolithography machine for forming a solid model of the temporomandibular joint on a basis of three-dimensional data of the temporomandibular joint specified by image information photographed by the CT device, and a face bow including a face bow body which is used for reproducing a positional relationship between the temporomandibular joint and an occlusion plane on the occludator and has a pair of right and left legs stretching symmetrically,

at least the right and left legs are made of a material permitting passage of a light beam used in the CT device,

a marking member is provided on an end of each of the right and left legs on a position presumed to be laterally opposed to a center of the mandibular condyle of a patient, the marking member being made of a material not permitting passage of the light beam, and a forming area B for stereolithography is specified according to a position of the photographed marking member.

41-42. (Canceled)